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[redacted] INFORMATION REPORT

[redacted] REPORT NO. [redacted]

COUNTRY East Germany

DATE DISTR. 10 November 1954

SUBJECT Radar Development at VEB Funkwerk Koepenick

NO. OF PAGES 2

25X1

PLACE ACQUIRED [redacted]

NO. OF ENCLS. (LISTED BELOW)

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DATE OF INFO. [redacted]

SUPPLEMENT TO REPORT NO.

25X1

[redacted]

[redacted]

THIS IS UNEVALUATED INFORMATION

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[redacted]

1. In late August 1954, the a[redacted]ship-borne radar device (Kollisionsschutzgeraet), developed i[redacted]EA of VEB Funkwerk Koepenick under the supervision of Rudolf Manthey, was mounted on an East German vessel at the Stralsund coast for the purpose of undergoing practical tests which were expected to last at least three weeks. Department TEA dispatched two [redacted] vessel in order to supervise the tests. They were Ing. Heinz [redacted] Eng. Scheuer (fnu). The latter technici[redacted] before to Manthey's department in order[redacted] himself [redacted] th radar development. He was scheduled t[redacted] later [redacted] t Department of Funkwerk Koepenick and to take over the projecting of all centimeter-wave devices to be developed there by Manthey in the future.

2. While the completed ant[redacted]evice was being subjected to trial tests, two engineers in[redacted]partment, Horst Kiesewald and Arndt (fnu), were engaged in the development of a new type of antenna for the radar device. [redacted] then being used [redacted] antenna caused [redacted] sitating a powerful drive motor and a big plummer block, which, in turn, increased frictional resistance. Upon Manthey's instructions, the two engineers therefore developed a new type of antenna ca[redacted] antenna (Tortenschachtelantenne). This kind of antenn[redacted] identically-shaped parabolic segments placed at a dist[redacted] centimeters above each other and connected with each other along their [redacted] edges by a straight wall. The entire instrument was [redacted] duralumin [redacted] Dural[redacted] open[redacted] former about 12 centimeters, whereas [redacted] antenna was between 35 and 40 centimeters. The "horn radiat[redacted] the center of this cross section. In late August 1954, Kies[redacted] Arndt had completed one model of the new type of antenna. [redacted]ed to use two antennae of this kind in the radar device, one [redacted] transmission and the other for reception. Each of the tw[redacted] was to be connected by wave guides to either the transmitter klystron or the receiver klystron.

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